



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Eko N. Onggosanusi, Et al.**

Docket No.: **TI-31513**

Serial No.: **09/919,191**

Examiner: **TBD**

Filed: **07/31/2001**

Art Unit: **2631**

For: **Parallel Concatenated Trellis-Coded Modulation  
with Asymmetric Signal Mapping**

Conf. No.: **4515**

**INFORMATION DISCLOSURE STATEMENT**

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October 4, 2001

Assistant Commissioner For Patents  
Washington, DC 20231

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231.

Elizabeth Austin

Date

Applicant wishes to bring to the attention of the Patent and Trademark Office the information noted on the enclosed PTO-1449. Copies of the listed references are enclosed.

This information disclosure statement is being mailed before receipt of a first office action on the merits in accordance with 37 C.F.R. 1.97(b)(3).

Respectfully submitted,

Ronald O. Neerings  
Attorney for Applicants  
Reg. No. 34,227

Texas Instruments Incorporated  
P. O. Box 655474, MS 3999  
Dallas, Texas 75265  
(972) 917-5299

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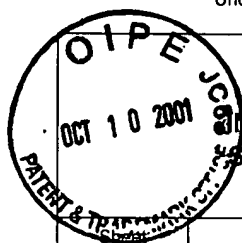


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of

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## Complete If Known

Application Number	09/919,191
Filing Date	07/31/2001
First Named Inventor	Eko N. Onggosanusi, Et al.
Group Art Unit	2631
Examiner Name	TBD
Attorney Docket No.	TI-31513

## U.S. PATENT DOCUMENTS

Exam. Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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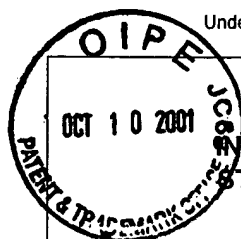


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Group Art Unit	2631
Examiner Name	TBD
Attorney Docket No.	TI-31513

Sheet 2 of 2

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam. Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	"A Note on Asymmetric Turbo-Codes", Oscar Y. Takeshita, et al., IEEE Communications Letters, Vol. 3, No. 3, 03/1999, pp. 69-71	
	CB	"A Soft-Input soft Output APP Module for Iterative Decoding of Concatenated Codes", S. Benedetto, Et al., IEEE Communications Letters, Vol. 1, No. 1, 01/1997, pp. 22-24	
	CC	Bandwidth-Efficient Turbo Trellis-Coded Modulation Using Punctured Component Codes", Patrick Robertson, et al., IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, 02/1998, pp. 206-218	
	CD	"Design of Parallel Concatenated Convolutional Codes", Sergio Benedetto, et al., IEEE Transaction on Communications, Vol. 44, No. 5, 05/1996, pp. 591-600	
	CE	"On the Frame Error Rate of Turbo-Codes", Oscar Y. Takeshita, et al., ITW 1998, Killarney, Ireland, 0-7803-4408-1/98/IEEE, 06/22-26, pp. 118-119	
	CF	"Turbo-Codes and High Spectral Efficiency Modulation", Stephane Le Goff, et al., Integrated Circuits for Telecommunications Laboratory, IEEE 0-7803-1825-0/94, IEEE 1994, pp. 645-649	
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